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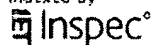
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# 1 [Formalizing the safety of Java, the Java virtual machine, and Java card](#)



Pieter H. Hartel, Luc Moreau

December 2001 **ACM Computing Surveys (CSUR)**, Volume 33 Issue 4

Publisher: ACM Press

Full text available: pdf(442.86 KB)

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We review the existing literature on Java safety, emphasizing formal approaches, and the impact of Java safety on small footprint devices such as smartcards. The conclusion is that although a lot of good work has been done, a more concerted effort is needed to build a coherent set of machine-readable formal models of the whole of Java and its implementation. This is a formidable task but we believe it is essential to build trust in Java safety, and thence to achieve ITSEC level 6 or Common Crite ...

**Keywords:** Common criteria, programming

# 2 [Research papers I: Interpreting programs in static single assignment form](#)



Jeffery von Ronne, Ning Wang, Michael Franz

June 2004 **Proceedings of the 2004 workshop on Interpreters, virtual machines and emulators**

Publisher: ACM Press

Full text available: pdf(165.13 KB)

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Optimizing compilers, including those in virtual machines, commonly utilize Static Single Assignment Form as their intermediate representation, but interpreters typically implement stack-oriented virtual machines. This paper introduces an easily interpreted variant of Static Single Assignment Form. Each instruction of this Interpretable Static Single Assignment Form, including the Phi Instruction, has self-contained operational semantics facilitating efficient interpretation. Even the array mani ...

# 3 [Technical correspondence: When and what to compile/optimize in a virtual machine?](#)



K. V. Seshu Kumar

March 2004 **ACM SIGPLAN Notices**, Volume 39 Issue 3

Publisher: ACM Press

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To speed up the computation of some of the object languages, virtual machines use